

CURA-99

SEQUENCE LISTING

<110> Shimkets, Richard A.
Leach, Martin D.

<120> NUCLEIC ACIDS CONTAINING SINGLE NUCLEIC ACID POLYMORPHISMS AND
METHODS OF
USE THEREOF

<130> 15966-599

<150> 60/163,783
<151> 1999-11-24

<160> 1468

<170> CuraGen Patent Formatter Version 0.9

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51

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<400> 59
atttttagta gagacaaggt tttgctatgt tggccaggct ggtctcgAAC t
51

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51

<210> 61
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CURA-99

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51

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50

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50

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<223> Accession number cg43987164

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51

<210> 66

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51

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51

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acttttgta tatgtgtgtg tgtgttgttg ggggggggtg agtgtgtg

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<223> Accession number cg43948037

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aaagttctcg aaatgcttca tccccaacaa agcaaatttc atgtccgtca g
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<223> Accession number cg43948037

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<400> 75

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<210> 76

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<400> 76

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<210> 77

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<210> 78
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51

<210> 79
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<223> Accession number cg43336176

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CURA-99

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<223> Accession number cg43982923

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<400> 81
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51

<210> 82
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CURA-99

<223> Accession number cg43966625

<400> 82

cgctgcccgc gcggggacca caacccaagt cgcggccgcc gcagccatgc g
51

<210> 83

<211> 51

<212> DNA

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<223> Accession number cg44004317

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<210> 84

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<223> Accession number cg43925424

<400> 84

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<210> 85

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CURA-99

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51

<210> 86
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<223> Accession number cg27803682

<400> 86
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51

<210> 87
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<210> 88
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<210> 89
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catcatagaa ctcccttgtgg atctcataga gctcaggcac tttgaagaag a
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gacaggaccc attttctcat ctccaggccc ttttccaagt ccagctcact c
51

CURA-99

<210> 94
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CURA-99

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51

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<210> 101
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<223> Accession number cg43969348

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50

<210> 103

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<223> Accession number cg43265754

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51

<210> 104

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CURA-99

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51

<210> 106
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CURA-99

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50

<210> 107
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51

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<210> 109
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CURA-99

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<223> Accession number cg42914441

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<210> 110

<211> 51

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<400> 110

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51

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<223> Accession number cg43929933

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<210> 112

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CURA-99

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51

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CURA-99

51

<210> 115
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51

<210> 116
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51

<210> 117
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CURA-99

<400> 117
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51

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<221> misc_feature
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51

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51

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CURA-99

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<400> 120

nacgcgttgg cgtcgtcctc gttgagctca tcaatccacc ac

42

<210> 121

<211> 51

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acacagcccc agtttgcttt acagcgcaag ttacaaaactg tccctttaaa a

51

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gactatatga tcaaaggcctt atagcaaaaa aattttttaa tatttgcaaa
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<210> 124
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51

<210> 125
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CURA-99

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<400> 125
ggcaacaaaa gcgaaactcc atctcaaaaa aaagagctat aggatcttta
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<210> 126
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aagcgaaaact ccatctcaaa aaaaagagct ataggatctt tacaatata
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CURA-99

51

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<210> 129
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<210> 130
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CURA-99

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51

<210> 132
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CURA-99

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<210> 137
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<210> 138
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51

<210> 139
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<210> 140
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CURA-99

<210> 141
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<400> 142
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51

<210> 143
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CURA-99

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cagacagaca caaggttctt ttttgtttg ttttgtttt cctcgccaac
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<210> 144
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taggggctga aacgcagtgc gggccggcac tgcccaggaa gggactccgg
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<210> 145
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CURA-99

<210> 146
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<400> 146
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<210> 147
<211> 50
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<400> 147
gtgcgtgcgt gtgtgtgtg gtgtggatc gtgtgtgtg gttttgttt
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<210> 148
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cccagtcaag ataaggagga tcccaacagc tcccctccga ggttgggctc t
51

<210> 149
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agcagcagct gttggagtag aaccgagtc agggcgccac catcttcatc g
51

<210> 150
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<223> single nucleotide polymorphism

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CURA-99

<210> 151
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<400> 151
gacaaatcat gtaagaactg tgaaaaccca gtttatgtag cgtatctctt g
51

<210> 152
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<400> 152
attttagta gagacggggt ttcactgtgt tagccaggat ggtctcgatc t
51

<210> 153
<211> 51
<212> DNA
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<220>
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<223> Accession number cg43303871

CURA-99

<400> 153
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51

<210> 154
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51

<210> 155
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<221> misc_feature
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<223> Accession number cg43918386

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<210> 156
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CURA-99

<222> (0)...(0)

<223> Accession number cg43923712

<400> 156

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<211> 51

<212> DNA

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<223> single nucleotide polymorphism

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<222> (0)...(0)

<223> Accession number cg43936083

<400> 157

gctaactggc gacagttata aaaacgc当地 aaggagcctg ggaaacacagca a

51

<210> 158

<211> 50

<212> DNA

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<223> Accession number cg43936393

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50

<210> 159

<211> 50

<212> DNA

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CURA-99

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<400> 159
aaaacaagtt tcagtaaaaa aaaaactaaa acaaacactg aagttagagtt
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<210> 160
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<400> 160
actgtattat ttatttacat gggctaaaag caaagaaaaa tgagtccctt c
51

<210> 161
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CURA-99

<222> (0)...(0)

<223> Accession number cg43940880

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tagttgtaa gaactgtaca aaaaatgctt ctggagattt ctttggcaga

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<210> 162

<211> 51

<212> DNA

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tttgggatcc tgatcaattc tttctaattt gtgtgaaaat gacaaagtgg g

51

<210> 163

<211> 51

<212> DNA

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<223> Accession number cg43950657

<400> 163

cagctgccaa aaccgtgtgt gcaaggcgcc gacctaaggg gacattcttg t

51

<210> 164

<211> 50

<212> DNA

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<220>

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CURA-99

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<400> 164
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<210> 165
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<223> Accession number cg43980521

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<210> 166
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<223> Accession number cg43980521

<400> 166
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51

<210> 167

CURA-99

<211> 51
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<221> misc_feature
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<400> 167
agcatcttga tcttagaggac tgaggacagc cccatcaggc tggggccctg g
51

<210> 168
<211> 51
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<223> Accession number cg44019839

<400> 168
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51

<210> 169
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<223> Accession number cg44021891

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agaagacctg gcttccttac aacagagaca ggctggtggc tggggctaga g

CURA-99

51

<210> 170
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<400> 170
gccccccagct aggaccctgt agttgagacc gtggcatgat acaaggacct g
51

<210> 171
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<400> 171
ttctgagaca gggcttgct ctgtcaccca ggctggagtg caatggcacg a
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<210> 172
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CURA-99

<400> 172
gggctcaagt gatcctccca cctcagcctc ccgagtagct gagactacag g
51

<210> 173
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ggtctcctca gtggctatt ttaggggtgg tttttttttt tttttttact g
51

<210> 174
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<223> Accession number cg43985955

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51

<210> 175
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<223> single nucleotide polymorphism

CURA-99

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<223> Accession number cg44916647

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51

<210> 176

<211> 50

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<221> misc_feature

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<223> Accession number cg44916647

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tctgtacatg taacatgtgg ccatgccagg catcccagca tctatcctga
50

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51

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<211> 51

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CURA-99

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<222> (26)...(0)

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<223> Accession number cg43926814

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tagaaatttc tatccccccc cattttcca gtaataaaaa gtagtgctgg g
51

<210> 179

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<223> Accession number cg43926814

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51

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CURA-99

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atgcacctgg cccacatggc tgggcactgc agcctgcact ccacttccag g
51

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51

<210> 183
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CURA-99

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51

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<223> Accession number cg43971614

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51

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CURA-99

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51

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CURA-99

<210> 195
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51

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51

<210> 199
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<223> Accession number cg43950996

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<210> 201

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<223> Accession number cg44924222

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taagggttag cagcagcagg agcgcttga agaagaagta gaagggatg t
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<210> 202

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51

CURA-99

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CURA-99

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51

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51

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51

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CURA-99

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51

<210> 209

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<221> misc_feature

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<223> Accession number cg43922383

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<400> 210

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<210> 211

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51

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51

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CURA-99

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51

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CURA-99

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51

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51

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<400> 218
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51

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CURA-99

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CURA-99

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51

<210> 224

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<223> Accession number cg43990820

CURA-99

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51

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51

<210> 226
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51

<210> 227
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CURA-99

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<223> Accession number cg43973724

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51

<210> 228

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<223> Accession number cg43258867

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<223> Accession number cg42907867

<400> 229

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CURA-99

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51

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<400> 232

CURA-99

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51

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51

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CURA-99

<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43950100

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51

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<222> (0)...(0)

<223> Accession number cg43132640

<400> 236

ctctatgaac tctgttttct ttctatgaga tattaaacca tgtaaagaac
50

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<211> 50

<212> DNA

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<223> single nucleotide polymorphism

<221> misc_feature

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<221> misc_feature

<222> (0)...(0)

<223> Accession number cg44938448

<400> 237

CURA-99

tgaaagttag agagctgcaa atctctaagt atcaatgtaa agaaggcagat
50

<210> 238
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<212> DNA
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg44938448

<400> 238
aatgccactt tcagatggaa ggaaagttag atggaaaaca aaaaaaaaaagg a
51

<210> 239
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<400> 239
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50

<210> 240
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CURA-99

<223> single nucleotide polymorphism

<221> misc_feature

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<223> Accession number cg42549778

<400> 240

gggggtgctc ctggaagccc caagaccatc caggattgcc tcccaagctgc c
51

<210> 241

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<212> DNA

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<220>

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<221> misc_feature

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<223> Accession number cg44028574

<400> 241

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50

<210> 242

<211> 51

<212> DNA

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<220>

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<221> misc_feature

<222> (0)...(0)

<223> Accession number cg44035718

<400> 242

tctcatctag tgctgaagtc tgaggactct gcagcatcag acccacctct a
51

<210> 243

CURA-99

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<400> 243
gaagagaaaag ataggtaaa tttatctgaa gttttcatgg tgttaatatt t
51

<210> 244
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<223> Accession number cg43963595

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ccccccaga cagaggccgg aggctgtctg gtgcagcgat gttaatggc a
51

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<223> Accession number cg43963595

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ccccgcagac agaggccgga ggcttgctgg tgcagcgatg tttaatggca a

51

<210> 246
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<400> 246
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50

<210> 247
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aaatagagaa tccagaccct tcccaaataa tttaagaact gagtttcct c
51

<210> 248
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CURA-99

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<400> 248
atttaaatct gaagcagaaaa aaaaagacaa tttacaaaga attattgagc
50

<210> 249
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<223> Accession number cg43067745

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51

<210> 250
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<221> misc_feature
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<223> Accession number cg42697161

<400> 250
acgtggtgct ggttagtgtct tgttgggtgt gaattctctc tcatacaaaa g
51

<210> 251
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CURA-99

<212> DNA
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51

<210> 252
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg42391024

<400> 252
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51

<210> 253
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<220>
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<400> 253
ctttaatgaa acactttgga tcgtcggtg .tgaagtgaaa agaatgtgct g
51

CURA-99

<210> 254
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51

<210> 255
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<400> 255
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50

<210> 256
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CURA-99

<221> misc_feature

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<223> Accession number cg43925519

<400> 256

agtggccctt tccccccctt gaagacgttt cacacgaaaa ggccgtttgt t
51

<210> 257

<211> 51

<212> DNA

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<220>

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<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43145684

<400> 257

tggcaaaactt gccagcagcg gttgctgaaa atgctgggtt cggtgcc tac t
51

<210> 258

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

<221> misc_feature

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<223> Accession number cg43981803

<400> 258

accagctcg agagggcact tgagatggtc tatgaacaaa tctgtctaaa a
51

<210> 259

<211> 51

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CURA-99

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<222> (0)...(0)

<223> Accession number cg44006111

<400> 259

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51

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<223> Accession number cg44924968

<400> 260

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51

<210> 261

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<220>

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<223> single nucleotide polymorphism

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<223> Accession number cg44924968

<400> 261

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51

<210> 262

<211> 51

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CURA-99

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<223> Accession number cg43977021

<400> 262
ttgcatctaa agtaattcat taatgaacag gagtagatga ggcctggcac a
51

<210> 263
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<220>
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<400> 263
taaagttaatt cattaatgtc caggaataga tgaggcctgg cacacatagc a
51

<210> 264
<211> 51
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<221> misc_feature
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<400> 264
attaatgtac aggagtagat gaggcttggc acacatagca gaaggtaatg g
51

<210> 265

CURA-99

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<400> 265
caggagtaga tgaggcctgg cacacgtgc agaaggtaat ggttctata g
51

<210> 266
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<400> 266
atgaggcctg gcacacatag cagaaagtaa tggttctata ggtgtatctt c
51

<210> 267
<211> 51
<212> DNA
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<220>
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<223> Accession number cg43977021

<400> 267
taatgcactt tgggctagag aaatacaaaa atcacacgta acaaaaaacaa a

51

<210> 268
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg43999373

<400> 268
cacagaattc agaacttttt caccggaaac tggagaagga gcactccgtc a
51

<210> 269
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<212> DNA
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<223> single nucleotide polymorphism

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43980889

<400> 269
tttgagagct gcagcagaag cggcttatac acagactgga tttagttatg a
51

<210> 270
<211> 51
<212> DNA
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<220>
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<221> misc_feature
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<223> Accession number cg43980889

CURA-99

<400> 270
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51

<210> 271
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<223> Accession number cg44030196

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50

<210> 272
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<400> 272
ggcaacaagt tacagcggcg ggagaagttc cttctctcac ctgccgggg g
51

<210> 273
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CURA-99

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<400> 273
agaagacagc gcgcagaaat agtgcagaga gaaatgacca gtactattta t
51

<210> 274
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<221> misc_feature
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<223> Accession number cg43958980

<400> 274
taagatccctc catccccacca aaaatgaccc acaatgactc caaatcttgt t
51

<210> 275
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<223> Accession number cg43320682

<400> 275
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50

CURA-99

<210> 276
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<400> 276
ccaggcttgc ctctagattg gctggccaga atttctgggg tcagtctgaa
50

<210> 277
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<221> misc_feature
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<400> 277
gggaagtaaa atgaaggaag cagacttctt gctcatctt ccaaatgaaa t
51

<210> 278
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CURA-99

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<400> 278
taaggccaga gcttgtgtgc tgggccagaa atcacctgct gcacccctgtg
50

<210> 279
<211> 51
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<223> Accession number cg43926358

<400> 279
cagtatgtg ctggcccttt cagggccaca ggccccttca gcttcaccgg a
51

<210> 280
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<220>
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<222> (26)...(0)
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<221> misc_feature
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<223> Accession number cg35060315

<400> 280
ccaaactatc tcaccctacc ctccccagga tccacttctt tggaatgaca a
51

<210> 281
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CURA-99

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

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<223> Accession number cg35060315

<400> 281

ctattttac catccatgtt ctcccaatct gtgctttctt tcaacagggtt

50

<210> 282

<211> 51

<212> DNA

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<223> Accession number cg35060315

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<210> 283

<211> 51

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<221> allele

<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg35060315

CURA-99

<400> 283
gttctcccaa atctgtgctt tcttttaaca gtttatatat taaaactatt t
51

<210> 284
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<220>
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<223> Accession number cg35060315

<400> 284
cccaaatctg tgcttcctt caacacgtta tatattaaaa ctatttcatg a
51

<210> 285
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<223> single nucleotide polymorphism

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<222> (17)...(18)
<223> Nucleotide deleted between bases 17 and 18

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<222> (0)...(0)
<223> Accession number cg44126579

<400> 285
tgtacaactg attagagggtt tttttttctt ttttctttc aa
42

<210> 286
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<212> DNA
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<220>
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CURA-99

<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

<222> (25)...(26)

<223> Nucleotide deleted between bases 25 and 26

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43951096

<400> 286

cctctcctcc aagagttgg tccgcagagg tggaaagaac tctcaatagt

50

<210> 287

<211> 50

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

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<221> misc_feature

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<223> Accession number cg43951096

<400> 287

cacagccata atatagagaa cagagttctc catgaacatc caccaggctg

50

<210> 288

<211> 51

<212> DNA

<213> Homo sapiens

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43960676

CURA-99

<400> 288
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51

<210> 289
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<212> DNA
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<400> 289
tcacacctaga tgagtgtggc tccccgcgct cccataactgc agcctgcccc t
51

<210> 290
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<400> 290
aagggaagcc tttttttttt ttttttttt tgcgaaaaca gaagccaagt
50

<210> 291
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<212> DNA
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<220>
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CURA-99

<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

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<223> Accession number cg43969533

<400> 291

agggaagcct atcctatTTT ttttccttt gcgaAAaacag aagccaagt

50

<210> 292

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg39376027

<400> 292

ccggggaggt ggttctggta atctgtgggg gagccgggac aggccccc a

51

<210> 293

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

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<223> Accession number cg39376027

<400> 293

gggaggtgg tctggtaatc tgggtggag ccggacagg cgcggcgagt t

51

CURA-99

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<220>
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<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43976681

<400> 294
ctctctcttc gccgcccacg cagaagggag ctggggagga aaaagctgct g
51

<210> 295
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<221> misc_feature
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<223> Accession number cg43085556

<400> 295
gtaaggtaaa atgtgaatca atatgctagt tctggcaat tattctgcaa a
51

<210> 296
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<212> DNA
<213> Homo sapiens

<220>
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<221> misc_feature
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<223> Accession number cg43085556

<400> 296

CURA-99

caatatgtta gttctggca attatcctgc aaattctgcc agataattaa a
51

<210> 297
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<220>
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<223> Accession number cg43085556

<400> 297
aatatgttag ttctggcaa ttatttgca aattctgcc aataattaa g
51

<210> 298
<211> 51
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<220>
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<400> 298
ttgttgttct caagctttc gccttatatt tagactaacc ctgcttattc c
51

<210> 299
<211> 51
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<213> Homo sapiens

<220>
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<221> misc_feature
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CURA-99

<223> Accession number cg43085556

<400> 299

ttttcgcccta catttttagac taaccttgct tattcctgtg aatcaagtgg t
51

<210> 300

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43085556

<400> 300

taaccctgct tattcctgtg aatcacgtgg tgatcttctg cagcttggaa t
51

<210> 301

<211> 51

<212> DNA

<213> Homo sapiens

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<223> Accession number cg43920089

<400> 301

gcatttgctg cttgtgcttg attttatttg gctcaatccc ttccctggcag c
51

<210> 302

<211> 50

<212> DNA

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<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

CURA-99

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<223> Nucleotide deleted between bases 25 and 26

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43950850

<400> 302
aaacatgttc catcaaattc agaaaagcag gtatcagtga aactggagca
50

<210> 303
<211> 51
<212> DNA
<213> Homo sapiens

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<223> single nucleotide polymorphism

<221> misc_feature
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<400> 303
aggaaaacca cgacgaccac taccgggcc taagcggtca gctttctcct c
51

<210> 304
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<221> misc_feature
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catccgcgt gacggcagtc accggcgaga ccggcgccgg aaagaccatg g
51

<210> 305
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CURA-99

<212> DNA
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<223> Accession number cg43976473

<400> 305
gacgctcgct gtcccccagg gccccgtgcg ccgcctcgta ggtacgaata c
51

<210> 306
<211> 51
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gcttctgtca gacgttactt tcaccatgcc tgctgtttcc acaggaagag t
51

<210> 307
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<212> DNA
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<400> 307
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51

CURA-99

<210> 308
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<400> 308
accccagctt gcccggcagc acacagaact gtttcttg cttgacgaat a
51

<210> 309
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<220>
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<221> misc_feature
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<400> 309
acaccactgg tactcacacc ccctccggct gggttctctg gtgcgccctg c
51

<210> 310
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<220>
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<222> (26)...(0)
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<221> misc_feature
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<223> Accession number cg43924285

CURA-99

<400> 310
ctgcatatgt ttgcagttt ccatcgactt cttcataaac aaacaaacat t
51

<210> 311
<211> 51
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<213> Homo sapiens

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<223> Accession number cg43924285

<400> 311
acattttcta gaaacccaaaa tatgtggtgg cccaaaggag ctcttaagca a
51

<210> 312
<211> 51
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<221> misc_feature
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<223> Accession number cg43958224

<400> 312
gttgatcct cagccaggac gcacaagccc tacaagatcc cagccctcca a
51

<210> 313
<211> 50
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CURA-99

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<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43971060

<400> 313

aacggcttta aacacaagct cagggcttgg gtttatccc gagggcacag

50

<210> 314

<211> 51

<212> DNA

<213> Homo sapiens

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<223> Accession number cg44927952

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<223> Accession number cg19885484

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51

<210> 316

<211> 36

<212> DNA

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CURA-99

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<223> Accession number cg42307356

<400> 316
cggccgcggc tcggaacggc gcctcccgcc ccacca
36

<210> 317
<211> 51
<212> DNA
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<220>
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<223> single nucleotide polymorphism

<221> misc_feature
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<223> Accession number cg44005017

<400> 317
tgggaggcct ggttccccct cccggtgtgc tgggacactc tgggttcctg c
51

<210> 318
<211> 51
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<220>
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<222> (26)...(0)
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<221> misc_feature
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<223> Accession number cg43329819

<400> 318
ttgagcttc ctacaagctg gaggccaaca gtcagtgaga gcgggggggc c
51

<210> 319

CURA-99

<211> 51
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<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43329819

<400> 319
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51

<210> 320
<211> 51
<212> DNA
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<221> misc_feature
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<223> Accession number cg43329819

<400> 320
gctggaggca aacagtca gt gagagtgggg gggccagtca gacccgacca a
51

<210> 321
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<223> single nucleotide polymorphism

<221> misc_feature
<222> (25)...(26)
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<221> misc_feature
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CURA-99

<223> Accession number cg44015618

<400> 321

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50

<210> 322

<211> 50

<212> DNA

<213> Homo sapiens

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<223> single nucleotide polymorphism

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<223> Accession number cg44015618

<400> 322

accacacacg cacacacaca cacaccttg tggctcaagt gcaggccaca
50

<210> 323

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<221> misc_feature

<222> (0)...(0)

<223> Accession number cg40361678

<400> 323

caacactttg ggaggccgag gcaggccgat cacctgaggt caggagttcg a
51

<210> 324

<211> 51

<212> DNA

<213> Homo sapiens

CURA-99

<220>
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<400> 324
gtgaaaacccc gtctctacta aaaattcaaa aattagccgg gcatggtggc g
51

<210> 325
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<221> misc_feature
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<223> Accession number cg40361678

<400> 325
ctaaaaatac aaaaatttagc cggcggtggt ggcggatgcc tgtaatccca g
51

<210> 326
<211> 51
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<221> misc_feature
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<223> Accession number cg43930957

<400> 326
aaaataaaac tctttgaaa gttgttggtc agctgaccag gtagaggatt c
51

<210> 327
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CURA-99

<212> DNA
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<223> Accession number cg43300636

<400> 327
caaaggcgcc aaagatgggg accagtacca cagccgccac gcccacctcc c
51

<210> 328
<211> 51
<212> DNA
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<222> (26)...(0)
<223> single nucleotide polymorphism

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<223> Accession number cg43967912

<400> 328
cattctctct ccaaaatttc tcagacttgt gcacaggact ccattccaac c
51

<210> 329
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<212> DNA
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<223> Accession number cg43967912

<400> 329
aaaatttctc agatttgtgc acagggtcc attccaacct tccagattta a
51

CURA-99

<210> 330
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<220>
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<221> misc_feature
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<400> 330
atttgtgcac aggactccat tccaatcttc cagatttaag ttctgaactg t
51

<210> 331
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<221> misc_feature
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<223> Accession number cg43132502

<400> 331
agtgggtggc accgcccagg ctgctattac ggctcatctt cattgatttg c
51

<210> 332
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<223> Accession number cg44924856

CURA-99

<400> 332
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51

<210> 333
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51

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<400> 334
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51

<210> 335
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CURA-99

<222> (0)...(0)

<223> Accession number cg43973728

<400> 335

gcaaattcag atgcaaagcc gtggctaacg ggaaggttct tccgaatgtat c

51

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<222> (0)...(0)

<223> Accession number cg43312829

<400> 336

tccaaatcaaa gacaacagga ctccacgtaa ctgaatatga ggacaatttg a

51

<210> 337

<211> 51

<212> DNA

<213> Homo sapiens

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<223> single nucleotide polymorphism

<221> misc_feature

<222> (0)...(0)

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<400> 337

agacaacagg actccatgta actgagtagt aggacaattt gaagaaaatca t

51

<210> 338

<211> 51

<212> DNA

<213> Homo sapiens

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CURA-99

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<221> misc_feature

<222> (0)...(0)

<223> Accession number cg43312829

<400> 338

aggacaattt gaagaaatca tgggtgtgga aagagctata ttctgttaga a
51

<210> 339

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<223> Accession number cg43312829

<400> 339

gggtatggaa agagctatat tctgtcagaa atataaggcc atcctgccac g
51

<210> 340

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<400> 340

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51

<210> 341

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CURA-99

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51

<210> 342
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<400> 342
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51

<210> 343
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<220>
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<221> misc_feature
<222> (0)...(0)
<223> Accession number cg43969759

<400> 343
tggctgtggg ctaccaggc ctcactacct cctccaggga gttgacttca g
51

<210> 344
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CURA-99

<212> DNA
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<220>
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<222> (26)...(0)
<223> single nucleotide polymorphism

<221> misc_feature
<222> (0)...(0)
<223> Accession number cg39523614

<400> 344
atgctggatc agatccagct gcacttaagt gtcgagccga cgaagatggg g
51

<210> 345
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<223> Accession number cg39523614

<400> 345
aagatgggaa cagttcgac ctgaatggcg tcaaggcttg ggtcacggag g
51

<210> 346
<211> 51
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<221> misc_feature
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<223> Accession number cg39523614

<400> 346
gggacagttt cgtcctgaac ggcgttaagg cttgggtcac ggaggctggc g
51

CURA-99

<210> 347
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<212> DNA
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<220>
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<222> (26)...(0)
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<223> Accession number cg39523614

<400> 347
tcgagggcac ggtctgagtg ttgctctggg tacgcttgac aactctcgta t
51

<210> 348
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<223> Accession number cg39523614

<400> 348
gtgtctcgat tgctgctcaa gcagtaggaa ttgcccaagg agcttttagac a
51

<210> 349
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<220>
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<222> (26)...(0)
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<223> Accession number cg42717491

CURA-99

<400> 349
aggctcacac tcacttcatg ttcttgacaa agtcctcgcc tttcttgatg g
51

<210> 350
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<400> 350
tgatggaggc tttcagctca gggatagcct cggcaatcat tttctcctca a
51

<210> 351
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<220>
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<223> Accession number cg42717491

<400> 351
cagggatggc ctcggcaatc atttttcct caaaaggagt gattttgcc a
51

<210> 352
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<220>
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CURA-99

<222> (0)...(0)

<223> Accession number cg42717491

<400> 352

tcattttctc ctcaaaaagga gtgatcttgc caatgcctag gttcttctcc a

51

<210> 353

<211> 51

<212> DNA

<213> Homo sapiens

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<222> (26)...(0)

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<223> Accession number cg42711596

<400> 353

attagtagatg ctgtgagctg tccttggttg aatctgattt agtttcagtt c

51

<210> 354

<211> 51

<212> DNA

<213> Homo sapiens

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<223> Accession number cg43319420

<400> 354

agaagtcaaga aggccttcct gtggcccggt tcatggacccg agacaaagtg a

51

<210> 355

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

CURA-99

<223> single nucleotide polymorphism

<221> misc_feature

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<223> Accession number cg41029366

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51

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<223> Accession number cg42876034

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51

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<223> Accession number cg43976227

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ctgggtgtat ctctgtctct ttatgaacca ctactttggc cactgacatg t
51

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CURA-99

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51

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aaccagcatc acctcggaac ttttcctcca tcaagttagc aatctgaatt t
51

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51

<210> 361
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CURA-99

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51

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51

<210> 363
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51

CURA-99

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51

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51

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CURA-99

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51

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51

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51

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<223> Accession number cg43105476

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51

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51

<210> 374

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51

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51

<210> 378
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<400> 378
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51

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51

<210> 380
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51

CURA-99

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<400> 381
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51

<210> 382
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<400> 382
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51

<210> 383
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CURA-99

<400> 383
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51

<210> 384
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51

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<400> 385
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<210> 386
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<223> Accession number cg43975720

<400> 386

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<223> Accession number cg43975720

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ctctgcggga cctgctgtgg ggcaatgcc a tcttcctcaa ggaggccaat g

51

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51

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CURA-99

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<223> Accession number cg43311943

<400> 389

acaacacctggc ttcctgctac ctgaaggcagg gcaagttacca ggatgcagag a
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<223> Accession number cg43983535

<400> 390

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51

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<223> Accession number cg42488873

<400> 391

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51

<210> 392

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CURA-99

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<223> Accession number cg43935885

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ggaagccccca gctgcaggag ctgctgaagc tgcccgccctt catgcgggta a
51

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51

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CURA-99

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51

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51

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51

CURA-99

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51

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51

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CURA-99

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51

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51

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51

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51

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51

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CURA-99

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CURA-99

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51

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51

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<210> 412
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CURA-99

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51

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51

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51

CURA-99

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51

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51

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CURA-99

<400> 417
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51

<210> 418
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51

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51

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CURA-99

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CURA-99

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51

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51

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51

CURA-99

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51

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CURA-99

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51

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51

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51

<210> 460

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CURA-99

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51

<210> 461
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51

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51

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CURA-99

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51

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51

CURA-99

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51

<210> 467
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51

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CURA-99

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51

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51

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51

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CURA-99

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<223> Accession number cg44005525

<400> 471

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51

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gtgtaaaagt gatatcgaga aagaagacac caccctcata cacggatcct g
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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

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51

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

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CURA-99

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CURA-99

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51

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

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CURA-99

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51

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CURA-99

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51

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51

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CURA-99

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51

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51

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51

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CURA-99

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<223> Accession number cg43956666

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51

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51

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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51

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51

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51

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<223> Accession number cg43949821

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CURA-99

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51

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51

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CURA-99

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51

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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<400> 1124
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<400> 1133
Ser Ala Lys Lys Pro Ser Ser Gly Ser Arg Tyr Gln Pro Leu
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<400> 1134
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Gly Lys Asn Ser Ser Tyr Ala His Gly Gly Leu Asp Ser Asn
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Ser Asn Glu Ser Leu Val Ala Asn Arg Val Thr Gly Asn Phe
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<400> 1138

Glu Pro Lys Ser Leu Leu Thr Leu Gly Ser Tyr Pro Pro Ala
1 5 10

<210> 1139

<211> 14

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<222> (7)...(0)

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<400> 1139

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<211> 14

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Tyr Val Asp Pro Asp Arg Ile Lys Arg Ala Gln Ser Tyr Ala
1 5 10

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<400> 1141

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Arg Asp Lys Glu Arg Glu His Gln Arg Asp Trp Glu Asp Lys

CURA-99

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<222> (7)...(0)

<223> cSNP translation

<400> 1143

Tyr Ser Ser Ser Gly Pro Asp Leu Arg Arg Ser Leu Phe Ser
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Gln Pro Ala Pro Ser Pro Asp Asp Leu Ala Leu Ser Met Gly
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1 5 10

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<400> 1146

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<211> 14

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<210> 1148

<211> 14

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Lys Ser Lys Ser Asn Ser Thr Ala Ala Arg Glu Pro Asn Gly
1 5 10

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Leu Ser Pro Gly Gly Glu Phe Gln Lys Trp Asn Gly Thr Ala
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<210> 1150

<211> 14

CURA-99

<212> PRT

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Leu Leu Thr Asp Gly Asp Leu His Ile Arg Asp Asp Gly Arg
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Gly Lys Arg Leu Phe Val Ile Lys Pro Ser Leu Tyr Tyr Asp
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CURA-99

Leu Val Pro Asp Glu Asp Val Arg Ala Ala Lys Trp Ala Val
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Val Val Arg Asn Ser Pro Arg Gly Val Lys Val Gln Met Ala
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Ala Leu Ser Ala Trp Pro Gln Leu Asp Gln Ala Ser Arg Cys
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Asn Leu Ser Asn Phe Leu Asn Lys Ser Gly Leu Gln Gly Tyr
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Thr Ser Ser Ser Lys Asn Arg Asp Pro Ile Thr Ile Val Asp
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Arg Leu His Asn Glu Val Asp Arg Lys Leu Gly Lys Pro Asp
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Met Leu Leu Pro Ser Trp Arg Thr Ser Ser Tyr Val Gly Ala
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Val Lys Thr Pro Glu Thr Ile Val Pro Thr Ala Pro Glu Leu
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CURA-99

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Phe Lys Asn Ile Lys Ser Ala Thr Glu Leu Asn Gly Asp Ile
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Glu Leu Ala Ile Asn Pro Val Gly Asp Arg Ile Ile Asn Ala
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CURA-99

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Cys Pro Pro Asp Tyr His Tyr Ile His Thr Glu Ile Ser Arg
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<210> 1172

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Ser Phe Leu Val Arg

1 5

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<223> cSNP translation

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Gly Ile Pro Gly Gly Pro Gly Gly Pro Gly Cys Gln Glu Leu

1 5 10

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Lys Tyr His Gly Val Ser Pro Leu Asn Pro Pro Glu Thr Leu

1 5 10

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Thr Val Tyr Pro Pro Leu Leu Ser Ile Gln Ala His Ser Gly
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Leu Ala Leu Pro Ser Val Thr Leu Cys Thr Phe Asn Ser Tyr
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CURA-99

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<400> 1183
Leu Asp Ile Ala Thr Asp His Val Gln Lys Arg Lys Gln Phe
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<400> 1184
Pro Lys Ser Gly Asp Trp Phe Cys Pro Asn Pro Ser Cys Gly
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Ala Val Pro Gly Ala Leu Cys Pro Leu Thr Ile Thr Ser Ser
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Arg Glu Glu Ser Gln Lys Cys Leu Lys Glu Phe Gln Glu Asn
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Glu Asp Phe Lys Lys Asp Val Lys Asn Ser Leu Arg Glu Thr
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Met Lys Asn Ser Leu Arg Gly Thr Gln Glu Asn Ile Asn Lys
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CURA-99

<223> cSNP translation

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Glu Thr Gln Glu Asn Ile Ser Lys Gln Val Glu Ala Tyr Arg
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<213> Homo sapiens

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Glu Val Lys Arg Lys Gln Cys Asp Ala Tyr Gly Ser Ala Gly
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Asn Tyr Arg Asn Asn Pro Ser His Asn Phe Arg His Cys Phe
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Leu Leu Arg His His Gly Gly Thr Val Leu Pro Ser Leu Asp
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Leu Ser Thr Tyr Ser Leu Asp Trp Val Met Ala Ala Val Val

CURA-99

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Glu Asn Gly Asp Phe Ala Ser Phe Arg Val Glu Arg Ala Glu
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Leu Leu Pro Phe Lys Ser Pro Ser Gly Asn Asp Val Glu Ala
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Leu Met Glu Glu Lys Phe Pro Gly Asp Ala Gly Leu Gly Lys
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<212> PRT

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Leu Trp Lys Thr Gln Lys Leu Ser Leu Trp Glu Ala Pro Arg
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CURA-99

Asp Leu Ile Trp Thr Leu Leu Gln Asp Cys Arg Glu Ile Phe
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Asp Phe Gly Leu Ser Lys Ile Gly Leu Met Ser Leu Thr Thr
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Gly Asn Ser Arg Val Trp Arg Gly Thr Met Glu Lys Ala Gly
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Thr Val Lys His Gly Ala Arg Ala Glu Ile Ser Thr Val Asn
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<212> PRT

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<223> cSNP translation

<400> 1213

Ala Thr Arg Ala Thr Leu Glu Lys Glu Phe Gly Gly Gly His
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<400> 1215

Thr Ile Lys Ser His Ser Asn Leu Pro Pro Asn Asn Ser Tyr
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<210> 1216

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Val Val Glu Asp Ile Asp Thr Leu Asp Val Asp Thr His Lys
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<400> 1217
Val Ser Ile Phe Asn Leu Gly Gly Met Glu His His Val Arg
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<400> 1218
Pro Ala Gln Asp Asp Arg Pro Phe Tyr Gln Phe Glu Ala Ala
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<400> 1219

Glu Arg Leu Gln Glu Thr Gly Lys Ile Ile Ala Glu Leu Asn
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<210> 1220

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<223> cSNP translation

<400> 1220

Pro Glu Asn Val Val Phe His Val Gly Gly Tyr Pro Pro Asp
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<210> 1221

<211> 14

<212> PRT

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<223> cSNP translation

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Asp Ser Val Trp Met Glu Val Asp Asp Glu Glu Asp Leu Pro
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<210> 1222

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<223> cSNP translation

<400> 1222

Ser Thr Thr Gly Thr Pro Leu Ser Ser Ala Pro Asp Pro Lys
1 5 10

<210> 1223

<211> 14

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<400> 1223
Gln Arg Arg Leu Asp Gln Phe Ile Gly Lys Pro Ser Leu Phe
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<210> 1224
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<400> 1224
Pro Pro Pro Trp Ser Lys Tyr Val Glu Tyr Thr Phe Thr Gly
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<210> 1225
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Thr Phe Gly Phe Gln Gly Lys Ala Leu Ser Ser Leu Cys Ala
1 5 10

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Lys Leu Asn Thr Ser Asn
1 5

CURA-99

<210> 1227
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<400> 1227
Ile Arg Asn Ala Gln Leu Arg Gly Leu Ile Ile Ala Pro Glu
1 5 10

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<400> 1228
Gly Lys Leu Val Leu Asn Gln Asn Pro Val Asn Tyr Phe Ala
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<400> 1229
Glu Tyr Gln Val Leu Phe Gly Ala Leu Ile Ser Pro Asp Arg
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<400> 1230
Gln Arg Asp Leu Gly Tyr Val Pro Leu Val Ser Trp Glu Glu
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<400> 1231
Cys Thr Ala Ser Ala Thr Leu Ser Cys Asn Asp Leu Cys Glu
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<210> 1232
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<400> 1232
Arg Pro Leu Thr Thr Gln His Pro Gln Ser Gly Thr Leu Lys
1 5 10

<210> 1233
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<400> 1233
Gly Ser Leu Ala Arg Ala Glu Glu Ala Gly Lys Leu Glu Glu
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<210> 1234
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<400> 1234
Lys Ile Ile Lys Val Lys Ser Val Lys Asp Arg Glu Asp Val
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<400> 1235
Ala Leu Arg Ser Leu Gln Ser Arg Cys Leu Val Pro Gly Tyr
1 5 10

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<400> 1236
Ile Ser Ala Ser Ser Gln Ala Pro Leu Ala Leu Arg Ser Leu
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Thr Lys Asn Ser Val Met Ser Lys Leu Tyr Gly Asp Ala Asp
1 5 10

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<210> 1238
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<400> 1238
Leu Leu Arg Pro Gly Ser Ser Ala Arg Val Val Gln Cys Ile
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Cys Asp Arg Ser Trp Ile Asn Asp Gln Tyr Asp Arg Phe Val
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<400> 1240
Thr Gly Asp Lys Arg Phe Gly Cys Ala Gln Cys Gln Lys Arg
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<400> 1241

Thr Ser Val Gly Pro Asn Thr Val Ser Pro Ser Ser Gly Pro
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<400> 1242

Cys Glu Gln Gly Phe Ser Arg Lys Ser His Leu Ile Arg His
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Thr Leu Tyr His His Val Asp Gly Cys Asp Val Phe His Leu
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Met Ala Leu Phe Thr Pro
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Cys Ile Asn Val Leu Val Pro Gly Phe Ile Met Val Ser Gly
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Thr Val Ser Ile Ser Ile Trp Ala Ser Leu Gln Gln Thr Gln
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Ser Glu Leu Asn Gln Pro Pro Glu Leu Leu Pro Gln Phe Ser
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Thr Pro Gln His Cys Ser Arg Asn Asn Phe Thr Met Arg Leu

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<400> 1249

Trp Leu Lys Gly Gly Glu Gln His Ser Ala Leu Pro Glu Gln
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<400> 1250

Ile Thr Gly Thr Phe Lys Tyr Arg Lys Met Thr Leu Val Glu
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Cys Asp Gln Lys Pro Cys Asn Cys Pro Lys Gly Asp Val Asn
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Gly Ala Val Leu Val Leu Tyr Ser Leu Pro Leu Glu Phe Pro
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<400> 1254

Ile Glu Ala Glu Ser Ser Asn Leu Thr Ser Val Thr Thr Glu
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Leu Thr Trp Pro Ala Asp Thr Leu His Cys Thr Glu Cys Val
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<210> 1256

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<212> PRT
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Val Leu Gln Ala Gly Ala
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Glu Ser Val Gln Gln Gln Thr Glu Phe Leu Asn Arg Gln Leu
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Gln Arg Lys Arg Leu Gln Pro Gln Leu Glu Glu Arg Ser Arg
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Phe Leu Tyr Ile Ser Leu Thr Asp Met Phe Pro Glu Met Asn
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<400> 1266

Gly His Thr Leu Asp Val Leu Lys Arg Lys Phe His Tyr Phe
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<400> 1268
Leu Ser Leu Ile Ile Gly His Pro Ile Ala Val Leu Met Tyr
1 5 10

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Gln Glu Glu Gln Met Glu Pro Glu Gln Gln Asn Lys Asp Glu
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1 5 10

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<400> 1273
Ser His His Asp Pro Ile Ile Lys Val Leu Ser Ile Arg Gly
1 5 10

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Pro Ile Ala Glu Thr Ile Lys Ala Ser Ser Asn Glu Ser Leu
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<210> 1278
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Lys Glu Trp Val Asp Lys Cys Asp Pro Gly Ala Leu Val Ile
1 5 10

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Ser Pro Arg Met Pro Ser Phe Gly Phe Ala Ala Glu Gly Arg
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Arg Asp Arg Asp Arg Glu Gly Asp Arg Asp Arg Asp Arg Asp
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<400> 1283

Lys Glu Ser Glu Leu Gln Val Thr Ser Ala Ala Ser Pro His
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Gly Ser Ser Arg Ser His Cys Arg Glu Glu Arg Ser Arg Arg
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Thr Thr Val Phe Glu Asp Pro Tyr Asp Tyr Met Asn Ser Leu
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Gln Gln Lys Leu Trp Asn
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Ala Ile Glu Thr Gln Leu Pro Glu Tyr His Lys Leu Ala Arg
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Asn Lys Lys Met Gly Leu Gly Asp Thr Leu Glu Gln Leu Asn
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Phe Ser Thr Pro Glu Ala Arg Gly Glu His Gly Leu Ala Pro
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<400> 1294

Gln Lys Phe Gln Val Asp Lys Ser Asn Arg Leu Leu Leu Gln
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<210> 1295

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<222> (7)...(0)

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Gln Gln Val Ser Leu Pro Tyr Ile Pro Gly Asn Tyr Thr Val
1 5 10

<210> 1296

<211> 14

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<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

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Lys Glu Glu Glu Gln Ala Glu Lys Asn Lys Leu Ser Gly Lys
1 5 10

<210> 1297

<211> 14

<212> PRT

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<223> cSNP translation

<400> 1297

Val Ser Leu Pro Lys Leu Thr Asn Val Gln Leu Leu Asp Thr
1 5 10

<210> 1298

<211> 14

<212> PRT

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<400> 1298

Asn Val Gln Leu Leu Asp Ile Asp Gly Gly Phe Val His Ser
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<210> 1299

<211> 14

<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 1299

Tyr Gln Glu Glu Leu Arg Phe His Tyr Lys Asp Met Leu Ser

CURA-99

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<210> 1300

<211> 14

<212> PRT

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Asn Phe Pro Ile Thr Phe Thr Cys Tyr Ala Ala Leu Phe Cys
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<211> 14

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<222> (7)...(0)

<223> cSNP translation

<400> 1301

Arg Asp Glu His Leu His Lys Met Ala Leu Glu Gln Ile Thr
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<211> 14

<212> PRT

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<223> cSNP translation

<400> 1302

Ile Ala Thr Lys Glu Glu Ile Ser Leu Leu Glu Ala Trp Lys
1 5 10

<210> 1303

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<222> (7)...(0)

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Phe Thr Trp Leu Ser Pro Glu Gly Glu Tyr Gln Lys Trp Asn
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<210> 1304

<211> 14

<212> PRT

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<400> 1304

Gly Pro Leu Pro Glu Asn Val Thr Trp Leu Ser Pro Gly Gly
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<400> 1305

Val Phe Asn Ser Asp Glu Ser Ser Trp His Leu Val Glu Asp
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<212> PRT

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Arg Lys Ser Phe Val Phe Gly Leu Asn Glu Cys Ala Ser Ser
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<212> PRT

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<223> cSNP translation

<400> 1307

Gly Gln Glu Tyr His Leu
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<210> 1308

<211> 14

<212> PRT

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<400> 1308

Lys Asp Gly Ala Pro Trp Phe Gly Arg His Tyr Cys Glu Ser
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<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1309

Tyr Ser Ser Thr Asp Thr Leu Tyr Pro Gly Ser Leu Pro Pro
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<400> 1310

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Ile Leu Asn Ser Lys Asp Gln Leu Gln Val Glu Asn Asp Ala
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<400> 1311

Asn Ser Lys Asp His Leu
1 5

<210> 1312

<211> 14

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<400> 1312

Pro Gly Thr Asp Arg Thr Ala Asn Val Lys Tyr Arg Gln Val
1 5 10

<210> 1313

<211> 14

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<223> cSNP translation

<400> 1313

Phe Thr Lys Ile Lys Thr Ser Asp His Gln Tyr Met Glu Gly
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<210> 1314

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<223> cSNP translation

<400> 1314

Ala Gly Leu Asp Ala Gln Met Val Met Gln Asp Asp Ala Ile
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<211> 14

<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 1315

Val Gly Gly Trp Ala Gly Phe Asp Ala Gln Val Val Met Gln
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<223> cSNP translation

<400> 1316

Ile Thr Ala Asp Gln Leu Ser Gly Val Gly Gly Trp Ala Gly
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<223> cSNP translation

<400> 1317

Val Gln Pro Gln Ile Asn Met Thr Ala Asp Gln Leu Leu Gly
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<210> 1318

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<211> 14
<212> PRT
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<220>
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<400> 1318
Asn Tyr Lys Asp Gln Leu Pro Gln Leu Asn Val Arg Val Leu
1 5 10

<210> 1319
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<212> PRT
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<400> 1319
Leu Met Lys Phe Tyr Leu Leu Leu Thr Gly Ile Pro Val Ile
1 5 10

<210> 1320
<211> 14
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<400> 1320
Ala Leu Thr Ala Leu Ser Gly Arg Arg Ala Gly Thr Arg Leu
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<210> 1321
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<223> cSNP translation

CURA-99

<400> 1321

His Leu Ala Ala Glu Arg Gly Ala Glu Ile Arg Ser Leu Cys
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<223> cSNP translation

<400> 1322

Thr Ile Phe Leu Ser Lys Phe Gln Thr Asp Val Arg Glu Lys
1 5 10

<210> 1323

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<212> PRT

<213> Homo sapiens

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<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1323

Ala Leu Ser Tyr Gly Phe His Gly Cys His Cys Gly Val Gly
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<210> 1324

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1324

Ile Ala Cys Pro Glu Thr Gly Thr Pro Ala Val Ile Thr Cys
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<210> 1325

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<213> Homo sapiens

CURA-99

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<400> 1325
Val Cys Pro Ile Arg Asp Ser Cys Arg Trp Val Ile Asp Gly
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<400> 1326
Leu Ser Ala Trp Pro Glu Pro Asp Gln Ala Ser Arg Cys Leu
1 5 10

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<400> 1327
Ile Ser Phe Ile Phe Arg Lys Gly Arg Lys Asn Ser Gly Ile
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<400> 1328
His Glu Ile Met Gly Pro Glu Lys Lys His Leu Asp Tyr Leu
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<210> 1329

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<223> cSNP translation

<400> 1329

Glu Ile Met Gly Pro Lys Asn Lys His Leu Asp Tyr Leu Ile
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<213> Homo sapiens

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<223> cSNP translation

<400> 1330

Glu Met Asn Val Asn Ile Ser Gln Leu Ala Asp Ser Leu Phe
1 5 10

<210> 1331

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<223> cSNP translation

<400> 1331

Glu Gln Ser Val Gln Ser Gln Pro Glu Glu Glu Asp Glu
1 5 10

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<223> cSNP translation

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<400> 1332
Arg Thr Arg Ala Cys Phe Arg Gln Trp Leu Cys Arg Leu His
1 5 10

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<222> (7)...(0)
<223> cSNP translation

<400> 1333
Ala Cys Phe Thr Gln Trp Pro Cys Arg Leu His Asn Glu Val
1 5 10

<210> 1334
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<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 1334
Met Val Thr Ser Ser Ala Met Ser Ser Leu Ala Cys Ile Ile
1 5 10

<210> 1335
<211> 14
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<222> (7)...(0)
<223> cSNP translation

<400> 1335
Val Ala Met Leu Leu Pro Asn Trp Lys Thr Ser Ser Tyr Val
1 5 10

<210> 1336
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<213> Homo sapiens

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<400> 1336
Leu Gln Pro Ser Thr Ser Arg Asp Gln Pro Val Thr Ser Glu
1 5 10

<210> 1337
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<223> cSNP translation

<400> 1337
Ser Thr Ser Thr Asp Gln Leu Val Thr Ser Glu Pro Thr Ser
1 5 10

<210> 1338
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<223> cSNP translation

<400> 1338
Thr Asp Gln Pro Val Thr Pro Glu Pro Thr Ser Gln Ala Thr
1 5 10

<210> 1339
<211> 14
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<223> cSNP translation

<400> 1339
Thr Ser Glu Pro Thr Ser Arg Ala Thr Arg Gly Arg Lys Asn
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<210> 1340

<211> 14

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<213> Homo sapiens

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<223> cSNP translation

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<222> (7)...(0)

<223> cSNP translation

<400> 1341

Arg Ile Lys Met Glu Glu Tyr Ala Leu Leu Ser Asp Pro Val
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<210> 1342

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1342

Arg Ala Arg Arg Ser Asn Cys Arg Arg Gln Glu Gly Ile Lys
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CURA-99

<223> cSNP translation

<400> 1343

Gly Trp Arg Ala Ile Asn Ser Ser Met Ala Ala Pro Ser Ser
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<213> Homo sapiens

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<223> cSNP translation

<400> 1344

Glu Pro Leu Asn Ser Arg Gly Asn Lys Leu His Phe Ala Phe
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<222> (7)...(0)

<223> cSNP translation

<400> 1345

Ile Asn Pro Leu Gly Asp Trp Ile Ile Asn Ala Phe Phe Pro
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<213> Homo sapiens

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<223> cSNP translation

<400> 1346

Ser Arg Glu Asp Phe Gln Gly Ile Pro Glu Leu Ala Ile Asn
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CURA-99

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 1347

Leu Glu Gln Glu Tyr Glu Asn Lys Leu Arg Ala Glu Leu Val
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<210> 1348

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1348

Glu Val Ser Ala Asp Gly Glu Thr Ile Thr Val Thr Phe Phe
1 5 10

<210> 1349

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1349

Ala Lys Lys Glu Met Val Ser Ser Lys Leu Pro Asn Ser Val
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<210> 1350

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

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<223> cSNP translation

<400> 1350

Ile Gln Pro Asp Gly Ser Gly Ser Ala Val Leu Trp Cys Asp

CURA-99

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<212> PRT

<213> Homo sapiens

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<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1351

Lys Trp Phe Glu Val Lys His Ile Ser Thr Glu Glu Ile Ser
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<210> 1352

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 1352

Lys Ser His Phe Gln Ala Thr His Ser Glu Ser Ser Asp Thr
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<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1353

Thr Met Gly Ser Thr Glu Ala Arg Val Asp Tyr Met Gly Ser
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<210> 1354

<211> 14

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<220>

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CURA-99

<222> (7)...(0)

<223> cSNP translation

<400> 1354

Ser Lys Glu Ala Ile His Ile Gln Leu Leu Glu Lys Gln Lys
1 5 10

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<212> PRT

<213> Homo sapiens

<220>

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<223> cSNP translation

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Val Cys Gly Asp Ala Ser
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<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1356

Gln Ala Gln Ala Gln Ser Tyr Cys Ser Cys Ser Thr Val Ser
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<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1357

Glu Glu Val Lys Val Ser Trp Thr Arg Leu Pro Thr Ser Cys
1 5 10

<210> 1358

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<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 1358

Lys Pro Ile Thr Arg Lys Gly Val Gly His Arg Met Gly Gly
1 5 10

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<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1359

Arg Ser Cys Ser His Pro Ser Gln Leu His Arg Leu Val Phe
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<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 1360

Ala Gly Thr Tyr Pro Arg Arg Glu Glu Tyr Arg Arg Gly Ile
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<210> 1361

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<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

<400> 1361

CURA-99

Thr Ile Ser Pro Leu Thr Leu Val Ser Val Ser Pro Ala Asn
1 5 10

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<212> PRT

<213> Homo sapiens

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<400> 1362

Met Gly Ser His Glu Pro Met Ile Ser Pro Leu Thr Pro Val
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Arg Ile Gly Leu Gly Leu Gly Gly Arg Trp Ala Trp Arg Leu
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Val Met Arg Ile Gly Leu Gly Trp Ala Gly Arg Trp Ala Trp
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<221> VARIANT

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<223> cSNP translation

<400> 1365

Gly Leu Thr Gln Asn Lys Ala Cys Gln Lys Thr Leu Ser Met
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<210> 1366

<211> 14

<212> PRT

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<221> VARIANT

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<223> cSNP translation

<400> 1366

Val Gln Trp Val Ala Pro Arg Gly Cys Cys Tyr Gly Ser Ser
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<211> 9

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1367

Pro Gly Asn Asn Arg Lys Cys Met Asn
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<211> 14

<212> PRT

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<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1368

Ser Val Gly Ala Leu Glu Ala Asn Ser Arg Arg Lys Leu Ala
1 5 10

<210> 1369

CURA-99

<211> 14
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<222> (7)...(0)
<223> cSNP translation

<400> 1369
Cys Gln Gly Asp Ser Gly Ala Arg Trp Cys Val Arg Thr Lys
1 5 10

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<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 1370
Cys Gln Gly Asp Ser Gly Ala Arg Trp Cys Val Arg Thr Lys
1 5 10

<210> 1371
<211> 14
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<220>
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<222> (8)...(0)
<223> cSNP translation

<400> 1371
Ile Glu Thr Tyr Phe Ser Lys Thr Thr Lys Thr Met Ser Ile
1 5 10

<210> 1372
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<213> Homo sapiens

<220>
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<222> (8)...(0)
<223> cSNP translation

CURA-99

<400> 1372

Pro Leu Ser Gly Ala Leu Ala Gln Ser Leu Arg Pro Ser Lys
1 5 10

<210> 1373

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1373

Trp Met Arg Asn Arg Arg Thr Val Pro Arg Gln Pro Ser Glu
1 5 10

<210> 1374

<211> 12

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1374

Phe Ser Gly Arg Leu Lys Ala Glu Gly Thr Ser Cys
1 5 10

<210> 1375

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1375

Leu His Arg Ala Phe Ser Val Ser Tyr Ser Thr Pro Lys Ile
1 5 10

<210> 1376

<211> 14

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<213> Homo sapiens

CURA-99

<220>
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<222> (7)...(0)
<223> cSNP translation

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Ser Lys Val Leu Glu Glu Gly Arg Pro Pro Arg Arg Ala Cys
1 5 10

<210> 1377
<211> 14
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<220>
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<223> cSNP translation

<400> 1377
Ala Glu Glu Gly Leu Arg Glu Cys Ser Ala Ala Gly Gly Ser
1 5 10

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<213> Homo sapiens

<220>
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<222> (8)...(0)
<223> cSNP translation

<400> 1378
Glu Leu Gln Arg Ser Arg Arg Ser Ala Thr Arg Thr Trp Arg
1 5 10

<210> 1379
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<220>
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<222> (8)...(0)
<223> cSNP translation

<400> 1379
Glu Asp Val Glu Ala Leu Ala Pro Ser Thr Arg Arg Arg Arg
1 5 10

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<210> 1380

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1380

Glu Ile Asn Cys Arg Arg Arg Thr Met Gly Thr Ser Ser Pro
1 5 10

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<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1381

Gly Met Glu His His Val Ala Pro Ala Ser Pro Lys Trp Ser
1 5 10

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<212> PRT

<213> Homo sapiens

<220>

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<222> (10)...(0)

<223> cSNP translation

<400> 1382

Val Ala Ala Glu Ala Leu Leu Lys Lys
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<210> 1383

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (7)...(0)

<223> cSNP translation

CURA-99

<400> 1383

Gly Cys Pro Lys Met Gly Thr Met Leu Thr Asn Leu Arg Gly
1 5 10

<210> 1384

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1384

Pro Cys Pro Ala Glu Gly Ser Pro Lys Trp Gly Thr Met Leu
1 5 10

<210> 1385

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1385

Ala His Thr Ala Ala Glu Gly Ala Gly Gly Trp Gly Ala Ala
1 5 10

<210> 1386

<211> 13

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1386

Leu Gln Glu Thr Leu Leu Gly Leu Phe Gly Leu Trp Cys
1 5 10

<210> 1387

<211> 14

<212> PRT

<213> Homo sapiens

CURA-99

<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

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Asp Lys Ala Glu Lys Thr Lys Lys Lys Lys Lys Arg Lys
1 5 10

<210> 1388
<211> 14
<212> PRT
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<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 1388
Lys Lys Glu Cys Tyr Tyr Ile Ser Met Thr Pro Val Ser Val
1 5 10

<210> 1389
<211> 8
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<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 1389
Glu Ser Leu Ile Asp Glu Glu Arg
1 5

<210> 1390
<211> 14
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<220>
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<222> (7)...(0)
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<400> 1390
Glu Tyr Lys Leu Val Val Gly Ala Pro Ala Val Trp Ala Arg
1 5 10

CURA-99

<210> 1391
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<220>
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<222> (8)...(0)
<223> cSNP translation

<400> 1391
Glu Tyr Lys Leu Val Val Val Ala Pro Ala Val Trp Ala Arg
1 5 10

<210> 1392
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 1392
Tyr Lys -Leu Val Val Val Ala Pro Ala Val Trp Ala Arg Val
1 5 10

<210> 1393
<211> 14
<212> PRT
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<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 1393
Tyr Asp Ala Asp Ala Gly Arg Met Thr Cys His Cys Trp Ser
1 5 10

<210> 1394
<211> 10
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<220>
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<222> (9)...(0)

CURA-99

<223> cSNP translation

<400> 1394

Met Arg Tyr Asp Ala Asp Ala Gly Gly Glu
1 5 10

<210> 1395

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (8)...(0)

<223> cSNP translation

<400> 1395

Tyr Ile Asp Ile Gln Leu Arg Leu Leu Pro Ser His Arg Thr
1 5 10

<210> 1396

<211> 14

<212> PRT

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<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1396

Ala Pro Lys Ser Ala Cys Val Cys Ala Gln Ala Asp Phe Glu
1 5 10

<210> 1397

<211> 9

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1397

Gly Val Ser Gly Val Lys Pro Gln Gly
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<210> 1398

<211> 14

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CURA-99

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1398

Leu Lys Pro Val Pro Val Gly Lys Arg Thr Arg Ala Ser Ser
1 5 10

<210> 1399

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1399

Asp Arg Val Pro Leu Arg Thr Arg Thr Ser Pro Leu Lys Arg
1 5 10

<210> 1400

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1400

Leu Glu Asn Ser Gln Met Lys Ser Ala Cys Cys Cys Lys Pro
1 5 10

<210> 1401

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (9)...(0)

<223> cSNP translation

<400> 1401

Leu Leu Ala Met Leu Gln Gly Pro Gly Pro Trp Leu Arg Pro

CURA-99

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<210> 1402

<211> 14

<212> PRT

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<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1402

Ser Glu Leu Arg Gly Gly Leu Thr Gly Ala Ser Thr Ser Ser
1 5 10

<210> 1403

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1403

Val Ala Leu Ser Ser Ala Gly Val Leu Ser Pro Met Val Ala
1 5 10

<210> 1404

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (9)...(0)

<223> cSNP translation

<400> 1404

Leu Val Lys Leu Lys Leu Lys Lys Ile Pro Trp Met Thr Phe
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<211> 11

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

CURA-99

<222> (7)...(0)

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<400> 1405

Ser Asn Ser Ile Ser Val Met Gly Val Ser Arg

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<210> 1406

<211> 14

<212> PRT

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<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1406

Thr Glu Trp Ser Gln Trp Ser Asn Val Thr Ser His Val Gly

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<210> 1407

<211> 12

<212> PRT

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<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1407

Tyr Arg Arg Gln Gly Leu Pro Ile Thr Ile Gly Glu

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<210> 1408

<211> 10

<212> PRT

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<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1408

Val Gly Asp Ala Cys Asp Ser Ala Leu Lys

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CURA-99

<212> PRT
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<223> cSNP translation

<400> 1409
Ser Val Glu Pro Glu Arg Asp Leu Thr Phe Leu Leu Thr
1 5 10

<210> 1410
<211> 14
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<220>
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<223> cSNP translation

<400> 1410
Leu Gln Ile Met Leu Gln Ala Glu Ser Ala Thr Arg Thr Glu
1 5 10

<210> 1411
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<212> PRT
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<223> cSNP translation

<400> 1411
Phe Gly Phe Ser Ser Gly Pro Ser
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<210> 1412
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<223> cSNP translation

<400> 1412

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Pro Glu Lys Gln Leu Val Glu Lys Lys Val Leu Thr Lys Gln
1 5 10

<210> 1413

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<212> PRT

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<223> cSNP translation

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Val Val Val Met Gly Pro Pro Lys Leu Glu Arg Ala Leu
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<210> 1414

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<400> 1414

Phe Ser Glu Asp Asp Pro Trp Arg Pro Leu Ser Ile Gly Pro
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<223> cSNP translation

<400> 1415

Asn Gln Ser Gln Glu Leu Gln Arg Ser Trp Arg Thr Ala Gly
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<223> cSNP translation

<400> 1416

Asn His Met Val Gln Gln Asp Ile Ser Pro Arg Pro Leu His
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<223> cSNP translation

<400> 1417

Lys Trp Pro Thr Leu Gln Asp Trp Pro Val Leu Pro Trp Arg
1 5 10

<210> 1418

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<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 1418

Phe Val Gly Arg Phe Phe Arg Ala Thr Met Ala Thr Gln Leu
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<212> PRT

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<223> cSNP translation

<400> 1419

Gln Ile His Arg Ile Arg His Phe Thr
1 5

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<400> 1420
Thr Leu Glu Glu Gly Asn Gln Gln Thr Arg Ser Pro Val Pro
1 5 10

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<400> 1421
Ala Thr Leu Glu Glu Gly Asn Gln Gln Thr Arg Ser Pro Val
1 5 10

<210> 1422
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<400> 1422
Ile Leu Asn Gln Pro Thr Leu Arg Leu Leu Pro Met Pro Glu
1 5 10

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<400> 1423

Val Asn Cys Ser Ala Val Cys Ala Ser Ser Ser Val Pro Cys
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<223> cSNP translation

<400> 1424

Ala Ala Pro Leu Lys Ile Lys Leu Ile Ser Met Arg Leu Gln
1 5 10

<210> 1425

<211> 14

<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 1425

Glu Glu Val Glu Glu Gly Glu Lys Arg Met Phe Ser Pro
1 5 10

<210> 1426

<211> 14

<212> PRT

<213> Homo sapiens

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<222> (9)...(0)

<223> cSNP translation

<400> 1426

Arg Val Gly Thr Pro Ser Gln Gly His Phe Phe Glu Gly Ala
1 5 10

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<211> 14

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<213> Homo sapiens

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<400> 1427
Pro Cys Ala Val Leu Arg Pro Leu Gly Leu Trp Ser Pro Ser
1 5 10

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Leu Gly Tyr Thr Pro Gln Arg Pro Val Lys Cys Ala Ser Cys
1 5 10

<210> 1429
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<400> 1429
Phe Gln Ala Ala Ile Glu Lys Lys Asn Ser Cys Ile Ser Thr
1 5 10

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<400> 1430
Leu Leu Tyr Trp
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<210> 1431
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<213> Homo sapiens

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<220>
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<400> 1431
Phe Cys Asn Gly Gln Arg Ser Gly Ser Pro Gly Arg Gln Ile
1 5 10

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<400> 1432
Met Lys Ile Gln Tyr Pro Ala Trp Pro Arg Ala Ser Thr Val
1 5 10

<210> 1433
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<212> PRT
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<220>
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<223> cSNP translation

<400> 1433
Met Lys Ile Gln Tyr Pro Ala Trp Pro Arg Ala Ser Thr Val
1 5 10

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<212> PRT
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<400> 1434
Glu Pro Leu Glu Met Ala Arg Pro Leu Ala His Pro Val Ala
1 5 10

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<210> 1435

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<212> PRT

<213> Homo sapiens

<400> 1435

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<210> 1436

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1436

Arg Leu Asp Arg Glu Arg Lys Lys Asp Lys Asn Glu Arg Gly
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<211> 8

<212> PRT

<213> Homo sapiens

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<223> cSNP translation

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Glu Ser Lys Arg Ser Val Lys Leu
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<210> 1438

<211> 12

<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 1438

Asp Ile Ser Ile Cys Gln Glu Cys Pro Ala Trp Arg
1 5 10

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<210> 1439

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (8)...(0)

<223> cSNP translation

<400> 1439

Ser Leu Phe Ser Leu Lys Gln Ser Ser Arg Arg Thr Lys Thr
1 5 10

<210> 1440

<211> 9

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

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<400> 1440

Thr Ser Leu Leu Gln Gly Thr Pro Thr
1 5

<210> 1441

<211> 14

<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 1441

Ile Ile Leu Ile Val Glu Leu Ala Gly Ser Arg Pro Ala Ser
1 5 10

<210> 1442

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

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<400> 1442

Ile Leu Ile Val Glu Leu Ser Gly Ser Arg Pro Ala Ser Pro
1 5 10

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<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1443

Asn Thr Gln Gln Gln Gln Asn Tyr Ile Arg Trp Ser Leu
1 5 10

<210> 1444

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1444

Thr Gln Gln Gln Gln Leu His
1 5

<210> 1445

<211> 14

<212> PRT

<213> Homo sapiens

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<223> cSNP translation

<400> 1445

Tyr Pro Ala His Ala Phe Trp Arg Pro Ser Ser Gly Val Ser
1 5 10

<210> 1446

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<212> PRT

<213> Homo sapiens

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<220>
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Gly Ala Tyr Ala Gln Ala
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<210> 1447
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<223> cSNP translation

<400> 1447
Ser Thr Ala Leu Arg Ala Asp Ser Thr Gly
1 5 10

<210> 1448
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<212> PRT
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<400> 1448
Arg Val Leu Ile Leu Asp Thr Phe Thr Cys Leu Leu Cys Leu
1 5 10

<210> 1449
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<212> PRT
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<400> 1449
Tyr Arg Gln Val Asp His Phe Pro Gln Ile His
1 5 10

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<210> 1450
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<222> (7)...(0)
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<400> 1450
Lys Leu Leu Val Cys Asn Met Met Asp Val Ser Pro Met Ala
1 5 10

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<212> PRT
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<400> 1451
Asp Trp Asn Ser Ser Lys Thr Thr Val Pro Leu Asn Met Pro
1 5 10

<210> 1452
<211> 14
<212> PRT
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<400> 1452
Leu Ser Glu Ala Pro Gly Ser Leu Pro Gln Pro Leu Ser His
1 5 10

<210> 1453
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<212> PRT
<213> Homo sapiens

<220>
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CURA-99

<223> cSNP translation

<400> 1453

Thr Ile Lys Ser Ala Val Ala Ser Gly Ile Ser Leu Pro Arg
1 5 10

<210> 1454

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1454

Pro Asp Arg Val Gly Arg Gln Ser Leu Lys Ser Ser Leu Glu
1 5 10

<210> 1455

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1455

Val Cys Thr Ala Arg Ser Pro Ser Val Arg Ser Ala Arg Ser
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<210> 1456

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1456

Asn Gln Glu Gly Asp Phe
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<210> 1457

<211> 14

<212> PRT

CURA-99

<213> Homo sapiens

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<222> (8)...(0)

<223> cSNP translation

<400> 1457

Leu Gln Val Pro Ala Val Thr Gly Leu Thr Pro Gln Pro Val
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<210> 1458

<211> 14

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<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1458

Ser Val Gln Arg Val Arg Gln Ser Val Lys Asn Leu Ile Lys
1 5 10

<210> 1459

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1459

Thr Ala Glu Glu Met Tyr Ile Tyr Leu Gly Asn Met Asp Leu
1 5 10

<210> 1460

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1460

Ala His Gln Gly Asn Leu Ala Pro Val Phe Ile Ala Met Gln

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1 5 10

<210> 1461
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<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 1461
Pro Gly Glu His Thr Pro Cys Trp Pro Leu Pro Arg Pro Ser
1 5 10

<210> 1462
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<212> PRT
<213> Homo sapiens

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<223> cSNP translation

<400> 1462
Arg Met Leu Asp Val Leu Gly Leu Ser Thr Ser Cys Arg Cys
1 5 10

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<212> PRT
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<400> 1463
Val Asp Glu Leu Pro Val Gln Ala Gly Ala Ala Thr Gly Ser
1 5 10

<210> 1464
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<213> Homo sapiens

<220>
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CURA-99

<222> (7)...(0)

<223> cSNP translation

<400> 1464

Ala Tyr His Ser Gly Tyr Glu Pro Thr Ala Pro Ser Thr Gly
1 5 10

<210> 1465

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1465

Val Met Asn Asp Leu Ser Gly Glu Pro Trp Thr Arg Arg Pro
1 5 10

<210> 1466

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1466

Arg Lys Gln Ala Val Arg Leu Arg Arg Ile Phe Ser Ala Ile
1 5 10

<210> 1467

<211> 8

<212> PRT

<213> Homo sapiens

<220>

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<223> cSNP translation

<400> 1467

Ile Asp Ala Leu Arg Gly Arg Ala
1 5

<210> 1468

<211> 11

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<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)...(0)
<223> cSNP translation

<400> 1468

Ser Cys Arg Phe Arg Glu Ala Thr Trp Ala Thr
1 5 10